

Delaware State Clearinghouse Committee Agenda

October 27, 2015

<i>Item</i>	<i>SA#</i>	<i>Applicant</i>	<i>Project Title</i>	<i>Federal</i>	<i>Funding State</i>	<i>Other</i>	<i>Positions</i>		
							<i>Federal</i>	<i>State</i>	<i>Other</i>
New Business									
1	2484	Executive, Criminal Justice, Criminal Justice Council	National Sexual Assault Kit Initiative	\$1,168,662	\$0	\$0	0.70	0.00	0.00
2	2496	Department of Health and Social Services, Public Health, Community Health	Utilization of Immunization Information Systems for Assessment, Feedback, Incentives and eXchange Assessments	\$450,000	\$0	\$0	0.10	0.00	0.00
3	2482	Department of Natural Resources and Environmental Control, Office of Natural Resources, Fish and Wildlife	Cape Henlopen Fishing Pier Decking	\$351,050	\$950,000	\$0	0.00	0.00	0.00
Continued									
4	2040 Amendment	Executive, Criminal Justice, Statistical Analysis Center	State Justice Statistics Program for Statistical Analysis Centers	\$60,000	\$0	\$0	0.90	0.00	0.00
5	2485	Department of Health and Social Services, Administration, Office of the Secretary	State Loan Repayment Program	\$420,000	\$421,260	\$0	0.00	0.00	0.00
6	2495	Department of Health and Social Services, Public Health, Community Health	Childhood Lead Poisoning Prevention Program	\$102,113	\$0	\$0	0.50	0.00	0.00
7	2503	Department of Health and Social Services, Public Health, Community Health	Lead-Based Paint Program - Certification	\$268,419	\$0	\$0	1.00	0.00	0.00
8	2504	Department of Health and Social Services, Public Health, Community Health	Lead-Based Paint Program - Enforcement	\$37,259	\$0	\$0	0.00	0.00	0.00
9	2505	Department of Health and Social Services, Public Health, Community Health	HIV Prevention	\$976,783	\$0	\$0	3.35	0.00	0.00
10	2506	Department of Health and Social Services, Public Health, Community Health	Improving Sexually Transmitted Disease Programs through Assessment, Assurance, Policy Development and Prevention Strategies	\$365,353	\$1,343,844	\$0	3.00	15.60	0.00
11	2507	Department of Health and Social Services, Public Health, Community Health	Tuberculosis Elimination Program	\$190,728	\$0	\$0	2.05	0.00	0.00
12	2508	Department of Health and Social Services, Public Health, Community Health	Clinical Laboratory Improvement Amendments	\$41,296	\$0	\$0	0.60	0.00	0.00
13	1961 Amendment	Department of Health and Social Services, Public Health, Community Health	Lead-Based Paint Hazard Control	\$2,130,245	\$304,193	\$0	0.50	1.35	0.00
14	2451	Department of Natural Resources and Environmental Control, Office of Natural Resources, Fish and Wildlife	Tidal Freshwater Fisheries Management	\$25,898	\$8,633	\$0	0.25	0.02	0.00
15	2468	Department of Natural Resources and Environmental Control, Office of Natural Resources, Fish and Wildlife	Artificial Reef Program	\$600,000	\$200,000	\$0	1.00	0.00	0.00
16	2470	Department of Natural Resources and Environmental Control, Office of Natural Resources, Fish and Wildlife	Aquatic Vegetation Program	\$162,585	\$54,195	\$0	0.98	0.02	0.00
17	2481	Department of Natural Resources and Environmental Control, Office of Natural Resources, Fish and Wildlife	Freshwater Trout Program	\$122,376	\$40,792	\$0	0.44	0.00	0.00
18	2491	Department of Safety and Homeland Security, Office of the Secretary, Delaware Emergency Management Agency	Homeland Security Grant Program	\$3,734,500	\$0	\$0	3.50	0.00	0.00

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19	2510	Department of Safety and Homeland Security, Office of the Secretary, Delaware Emergency Management Agency	Hazardous Materials Emergency Preparedness Training and Planning	\$111,355	\$28,141	\$0	0.00	0.80	0.00
20	2492	Department of Agriculture, Plant Industries	Cooperative Agricultural Pest Survey	\$107,362	\$4,587	\$0	1.00	0.07	0.00
21	2509	Fire Prevention Commission, State Fire School	National Fire Academy Training	\$20,060	\$0	\$0	0.00	0.00	0.00

Higher Education

1	2015-10-03-01	HE/University of Delaware	Heating and Acceleration of the Solar Corona and Solar Wind: Effects of Turbulence Transport, Eddy Viscosity, and Turbulent Resistivity	\$237,902	\$0	\$0			
2	2015-10-03-02	HE/University of Delaware	High Throughput Electrospinning of Biodegradable Polymer Nanofibers of Poly(hydroxybutyrate-co-hydroxyhexanoate) (PHBHx) Using an AFM Tip Array for Filtration Applications	\$442,770	\$0	\$0			
3	2015-10-03-03	HE/University of Delaware	3D Organotypic Culture Models for High-Throughput Screening and Quantitative Tissue-Scale Biology	\$1,249,994	\$0	\$0			
4	2015-10-03-04	HE/University of Delaware	Maximizing the Delivery and Efficacy of miRNA Therapeutics Through Nano carrier Design	\$1,250,005	\$0	\$0			
5	2015-10-03-05	HE/University of Delaware	Randomized Control Trial for the Florida Organic Growers	\$0	\$0	\$8,953			
6	2015-10-03-06	HE/University of Delaware	University of Copenhagen Partnership Agreement - Dr. Duque Calvache	\$0	\$0	\$12,794			
7	2015-10-03-07	HE/University of Delaware	Improved Physics-Based Turbulence Driven Model of Coronal Heating and Solar Wind Acceleration in Open Field Regions	\$277,105	\$0	\$0			
8	2015-10-03-08	HE/University of Delaware	Great American Songbook Supplement 3	\$0	\$0	\$18,567			
9	2015-10-03-09	HE/University of Delaware	Collaborative Proposal: DNA Guided Assembly of Enzyme Cascades for Bio catalytic Fuel Cell Applications	\$39,966	\$0	\$0			
10	2015-10-03-10	HE/University of Delaware	4-H Military Partnerships 2016 Grant	\$0	\$0	\$21,200			
11	2015-10-03-11	HE/University of Delaware	The Impact of Delaware's Regulations on Nutrition and Physical Activity in Childcare Centers	\$1,034,236	\$0	\$0			
12	2015-10-03-12	HE/University of Delaware	Investigation of Energy Cascade, Anisotropy and Intermittency at Ion Kinetic Scales in the Solar Wind	\$229,858	\$0	\$0			

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13	2015-10-03-13	HE/University of Delaware	SMU Ruppel Ship Time September 2015	\$0	\$0	\$227,025			
14	2015-10-03-14	HE/University of Delaware	New Directions in the Qualitative Approach to Inverse Scattering Theory	\$0	\$0	\$39,776			
15	2015-10-03-15	HE/University of Delaware	Improved Understanding of Vertical Mixing in the Lower Atmospheric Boundary Layer in the Presence of Wind Turbines Via Numerical Simulations and Measurements	\$239,245	\$0	\$0			
16	2015-10-03-16	HE/University of Delaware	Redox Signaling in Fungal-Plant Interactions: Unique and Overlapping Roles of Reactive Oxygen Species in Rice Blast and Southern Corn Leaf Blight	\$0	\$0	\$149,860			
17	2015-10-03-17	HE/University of Delaware	Polymerizations with Elemental Sulfur via Nucleophilic Activation with Amines and Amine Containing Comonomers	\$0	\$0	\$48,976			
18	2015-10-03-18	HE/University of Delaware	Proposal for Special Initiative on Offshore Wind	\$0	\$0	\$59,055			
19	2015-10-03-19	HE/University of Delaware	A Combined Computational and Experimental Study of Nanocubane Oxygen Evolution Catalysts	\$240,280	\$0	\$0			
20	2015-10-03-20	HE/University of Delaware	Spin Plasmonics	\$277,790	\$0	\$0			
21	2015-10-03-21	HE/University of Delaware	Mechanical and Genetic Regulation of Multiscale Smooth Muscle Contractions that Drive Airway Morphogenesis	\$213,408	\$0	\$0			
22	2015-10-03-22	HE/University of Delaware	CSBR: Natural History: Development of Standardized Operating Procedures and Digitization of a National Pollinator Pollen Reference Collection	\$380,767	\$0	\$0			
23	2015-10-03-23	HE/University of Delaware	HHS UCEDD ACL AIDD 15-16 Delaware UCEDD: Deepening the Impact of the Disabilities Studies Minor	\$31,414	\$0	\$0			
24	2015-10-03-24	HE/University of Delaware	Evaluating State-of-the-Art Methods and Modeling Techniques for Rubble Mound Structures	\$106,383	\$0	\$0			
25	2015-10-03-25	HE/University of Delaware	Provide Training for 14 International Veterinarians for the 2016 Emergency Management of Poultry Disease Outbreaks (EPDR) Certificate Training Program	\$154,925	\$0	\$0			
26	2015-10-03-26	HE/University of Delaware	Gelb 2015 Exp 6 Evaluation of an AI Vaccine Program Using Non-Replicating Vaccines	\$116,238	\$0	\$0			
27	2015-10-03-27	HE/University of Delaware	To provide Emergency Response, Depopulation and Disposal training for USDA Veterinary Services	\$72,175	\$0	\$0			

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28	2015-10-03-28	HE/University of Delaware	Service and Maintenance of the Grey's Reef Ocean Acidification Mooring: In Support of NOAA Ocean Acidification Program FY15-17	\$0	\$0	\$149,995			
29	2015-10-03-29	HE/University of Delaware	Cellular Regulation of TRPV4 Channel Gating	\$440,459	\$0	\$0			
30	2015-10-03-30	HE/University of Delaware	Void Removal from Dual Scale Fibrous Reinforcement during Composite Processing	\$228,344	\$0	\$0			
31	2015-10-03-31	HE/University of Delaware	Collaborative Research: Long timescale Constitutive Response of Hydrogels	\$342,077	\$0	\$0			
32	2015-10-03-32	HE/University of Delaware	Collaborative Research: Displacement-based Friction Measurement	\$49,767	\$0	\$0			
33	2015-10-03-33	HE/University of Delaware	4H NMP 6 National Mentoring Program	\$0	\$0	\$229,986			
34	2015-10-03-34	HE/University of Delaware	Evaluation of Commercial Wheat and Barley Cultivars for FHB Reaction in DE/MD	\$0	\$0	\$14,075			
35	2015-10-03-35	HE/University of Delaware	Integrated Management of FHB and DON in Soft Red Winter Wheat in Delaware 2016/17	\$0	\$0	\$26,417			
36	2015-10-03-36	HE/University of Delaware	Advanced Hybrid Micro/Nanocomposites for Structural and Multifunctional Applications	\$0	\$0	\$89,932			
37	2015-10-03-37	HE/University of Delaware	Carbonyls to Cancer Therapeutics	\$271,573	\$0	\$0			
38	2015-10-03-38	HE/University of Delaware	Delmar School District Professional Development 2015-2016 Delmar High School Delmar Middle School	\$0	\$0	\$13,803			
39	2015-10-03-39	HE/University of Delaware	DOA Effective Military Configuration and Command: Dual Status Commanders for Multi-State Disasters	\$19,230	\$0	\$0			
40	2015-10-03-40	HE/University of Delaware	The Colored Conventions Project	\$52,447	\$0	\$0			
41	2015-10-03-41	HE/University of Delaware	Ordered Mesoporous Transition Metal Sulfides and their Applications	\$244,012	\$0	\$0			
42	2015-10-03-42	HE/University of Delaware	Spin Plasmonics	\$142,185	\$0	\$0			

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43	2015-10-03-43	HE/University of Delaware	NSF:SHF:Medium: Collaborative Research: Differential Verification of Concurrent Programs	\$400,426	\$0	\$0			
44	2015-10-03-44	HE/University of Delaware	Will Perform a Quantitative Data Consultation for Family Center Data	\$0	\$0	\$18,731			
45	2015-10-03-45	HE/University of Delaware	AviPort: The Portal for Avian Biology	\$0	\$0	\$630,825			
46	2015-10-03-46	HE/University of Delaware	LEVEL II HABS/HAER/HALS Documentation of the E4400 Block at Aberdeen Proving Ground	\$26,950	\$0	\$0			
47	2015-10-03-47	HE/University of Delaware	Delaware Community Foundation grant	\$0	\$0	\$81,663			
48	2015-10-03-48	HE/University of Delaware	PCMHAB:The Dinoflagellate-Specific Algaecide IRI-160AA: Isolation, Characterization and Potential Impacts on Ecologically Relevant Metazoan Species	\$474,638	\$0	\$0			
49	2015-10-03-49	HE/University of Delaware	Metal-free Functionalization of Aromatic Rings - Remarkably Mild Carbon and Carbon-Carbon Bond Formation and Dehydrogenative Cross-Coupling Reactions	\$0	\$0	\$83,127			
50	2015-10-03-50	HE/University of Delaware	CCF:SHF:MEDIUM:Collaborative Research: MAPPER: Massive Asynchronous Parallel Processing Environment with Resiliency	\$478,212	\$0	\$0			
51	2015-10-03-51	HE/University of Delaware	PADE Christiana Care 15/16 Partner Organization	\$0	\$0	\$15,800			
52	2015-10-03-52	HE/University of Delaware	PADE Forum to Advance Minorities in Engineering DE 15/16 Partner Organization	\$0	\$0	\$13,800			
53	2015-10-03-53	HE/University of Delaware	Biophysical Patterning of Epithelial Tissues	\$0	\$0	\$300,000			
54	2015-10-03-54	HE/University of Delaware	Mechanistic Interrogation of the Interfacial Dynamics of Bismuth-Based Electrocatalysts for Reduction of CO2	\$73,718	\$0	\$0			
55	2015-10-03-55	HE/University of Delaware	Brown Marmoaated Stink Bug (BMBS) Classical Biological Control	\$70,787	\$0	\$0			
56	2015-10-03-56	HE/University of Delaware	Prediction of Portal Pressure With Multiparametric MRI in Patients with Chronic Liver Disease	\$0	\$0	\$56,142			
57	2015-10-03-57	HE/University of Delaware	Functional Adaptation of the Maternal Skeleton to Reproduction and Lactation	\$0	\$0	\$29,280			

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58	2015-10-03-58	HE/University of Delaware	ABI Development: Extending PathBubbles, a Novel Approach to Network Visualization and Analysis	\$427,509	\$0	\$0			
59	2015-10-03-59	HE/University of Delaware	Immune and Metabolic Kinome Analysis of Chicken and Bovine to Study Mechanism of Action of Feed Enzymes and Disease	\$0	\$0	\$56,738			
60	2015-10-03-60	HE/University of Delaware	Early Head Start University Partnership Grants: Buffering Children From Toxic Stress	\$316,456	\$0	\$0			
61	2015-10-03-61	HE/University of Delaware	How the Subpolar Gyre Affects the Atlantic Meridional Overturning Circulation Variability During the Global Warming Acceleration and Temporary Slow-Down Periods	\$308,209	\$0	\$0			
62	2015-10-03-62	HE/University of Delaware	Ranking Shade Coffee Trees for Bird Conservation Value	\$0	\$0	\$3,904			
63	2015-10-03-63	HE/University of Delaware	An Augmented Reality System to Guide Robotic Assisted Laparoscopic Radical Prostatectomy	\$496,008	\$0	\$0			
64	2015-10-03-64	HE/University of Delaware	Acquisition of Computer Cluster for First-Principles Predictions of Structure and Properties of Cocrystals	\$285,000	\$0	\$0			
65	2015-10-03-65	HE/University of Delaware	Innovation to Enhance Produce Safety and Quality During Their Forced Air Cooling Process	\$70,922	\$0	\$0			
66	2015-10-03-66	HE/University of Delaware	A Partnership Between Towson University and University of Maryland School of Medicine	\$0	\$0	\$14,995			
67	2015-10-03-67	HE/University of Delaware	Microbial Removal of Nitrate Using Scrap Iron	\$0	\$0	\$110,766			
68	2015-10-03-68	HE/University of Delaware	Synchronous Rendezvous for Heterogeneous Robotic Sensor Networks in Geophysical Flows	\$0	\$0	\$199,195			
69	2015-10-03-69	HE/University of Delaware	GUIIDE (Guidance and Information for Improved Decisions in Education)	\$0	\$0	\$184,394			
70	2015-10-03-70	HE/University of Delaware	Oviductal Exosomes: Roles in Sperm Function and the Health of the Offspring	\$1,250,000	\$0	\$0			
71	2015-10-03-71	HE/University of Delaware	Reproductive Aging and Vascular Function	\$1,493,706	\$0	\$0			
72	2015-10-03-72	HE/University of Delaware	Development of Algorithms Combining Molecular Dynamics With Time-Dependent Quantum Statistical Mechanics for Environment-Assisted Electronic Transport Through Biomolecules	\$317,940	\$0	\$0			

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73	2015-10-03-73	HE/University of Delaware	Extending Organochromium Chemistry - Stable Alkyl Hydrides and High-Valent Alkylidenes	\$358,760	\$0	\$0			
74	2015-10-03-74	HE/University of Delaware	Tasting for two: Strategies to Enhance Liking and Intake of Fruits	\$0	\$0	\$422,441			
75	2015-10-03-75	HE/University of Delaware	NIH DE Training Outstanding Postdoctoral Scholars	\$3,902,358	\$0	\$0			
76	2015-10-03-76	HE/University of Delaware	An Integrated Pest Management Approach in Addressing the Multiple Herbicide-Resistant Weed Epidemic in U.S. Field Crop Production (Delaware)	\$43,000	\$0	\$0			
77	2015-10-03-77	HE/University of Delaware	Understanding Mechanisms Involved in Plant-Pathogen Interactions During the Process of Disease Development in Plants	\$30,909	\$0	\$0			
78	2015-10-03-78	HE/University of Delaware	Digitization TCN: Lepidoptera of North America Network: Documenting Radiation in the Largest Clade of Herbivores	\$0	\$0	\$11,024			
79	2015-10-03-79	HE/University of Delaware	ICE-MAN: Identifying Biosignatures in Subterranean Desert Ice Caves on Earth and Other Icy Worlds	\$1,420,095	\$0	\$0			
80	2015-10-03-80	HE/University of Delaware	NSF:CRII:CSR: Energy-Award Cloud Resource Management	\$118,968	\$0	\$0			
81	2015-10-03-81	HE/University of Delaware	Infant Microbiome and Metabolome: A Pilot Study	\$0	\$0	\$15,027			
82	2015-10-03-82	HE/University of Delaware	Hydrogen Oxidation Reaction at Alkaline Polymer Electrochemical Interfaces Achieving mechanistic understanding through surface sensitive spectroscopy	\$198,995	\$0	\$0			
83	2015-10-03-83	HE/University of Delaware	Theoretical Studies of Intermolecular Forces	\$342,876	\$0	\$0			
84	2015-10-03-84	HE/University of Delaware	CRII: RI: Secure Consistent MAV Navigation	\$123,882	\$0	\$0			
85	2015-10-03-85	HE/University of Delaware	Assistive Technology at work and Emergency Prep	\$0	\$0	\$7,500			
86	2015-10-03-86	HE/University of Delaware	Simons A Polynomial-Based Theory for Studying Projective Planes	\$0	\$0	\$43,699			
87	2015-10-03-87	HE/University of Delaware	Structure/Function of Microtubule-Associated Protein Assemblies by MAS NMR	\$2,068,805	\$0	\$0			

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88	2015-10-03-88	HE/University of Delaware	Interactive Effects of Dietary Potassium and Sodium on Vascular Function	\$1,479,737	\$0	\$0			
89	2015-10-03-89	HE/University of Delaware	Mechanisms of Impaired Motor Learning Post Stroke	\$1,225,000	\$0	\$0			
90	2015-10-03-90	HE/University of Delaware	PADE Delaware Connections 15/16 Partner Organization	\$0	\$0	\$15,800			
91	2015-10-03-91	HE/University of Delaware	NSF-EAGER: Identification of Effector Genes and Host Targets That Lead to Attack or Defense in Bacterial-Fungal Interactions	\$210,439	\$0	\$0			
92	2015-10-03-92	HE/University of Delaware	CRI: CPS: Simulation-Informed Optimization of Actuation Paradigms for Wearable Robotics	\$124,970	\$0	\$0			
93	2015-10-03-93	HE/University of Delaware	Pressure in Lung Development and Congenital Diaphragmatic Hernia	\$1,250,005	\$0	\$0			
94	2015-10-03-94	HE/University of Delaware	Applications of Infrared Semiconductor Metamaterials	\$235,448	\$0	\$0			
95	2015-10-03-95	HE/University of Delaware	Development of an Innovative Mass Vaccine Administration Method at Poultry Hatcheries	\$74,564	\$0	\$0			
96	2015-10-03-96	HE/University of Delaware	PADE Teach for America 15/16 Partner Organization	\$0	\$0	\$10,000			
97	2015-10-03-97	HE/University of Delaware	NIH Cerebellar Function in Speech Motor Control - Benjamin Parrell	\$1,699,726	\$0	\$0			
98	2015-10-03-98	HE/University of Delaware	Appetite Regulation and Food Intake: Novel Mechanisms Linking Loneliness to Weight Gain Among Cancer Survivors	\$1,964,879	\$0	\$0			
99	2015-10-03-99	HE/University of Delaware	National Institute of Health Creating Healthy Neighborhoods and Addressing Firearm Violence: A Social, Collaborative Approach	\$2,216,569	\$0	\$0			
100	2015-10-04-01	HE/University of Delaware	Biofeedback for Individuals With Cognitive and Motor Impairment	\$800,233	\$0	\$0			
101	2015-10-04-02	HE/University of Delaware	Dimensions of Human Reinforcement Learning	\$1,250,000	\$0	\$0			
102	2015-10-04-03	HE/University of Delaware	Rehabilitation Interventions that Optimize Post-Stroke Recovery	\$99,830	\$0	\$0			

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103	2015-10-04-04	HE/Delaware State University	Delaware State University Tobacco Campus Outreach Campaign	\$0	\$0	\$11,550			
104	2015-10-04-05	HE/Delaware State University	Enhancing the Retention and Success of Diverse Graduate Students at an HBCU	\$0	\$0	\$0			
105	2015-10-04-06	HE/Delaware State University	Never Say Never	\$0	\$0	\$7,500			
106	2015-10-04-07	HE/Delaware State University	Ecological Assessment and Monitoring of Dover-Camden-Wyoming Urban Forest	\$0	\$0	\$0			
107	2015-10-04-08	HE/Delaware State University	Health Fund FY17	\$0	\$0	\$101,500			
108	2015-10-04-09	HE/Delaware State University	Delaware TOPS (Training Outstanding Postdoctoral Scholars)	\$0	\$0	\$0			
109	2015-10-04-10	HE/Delaware State University	Overcoming Saturation Limit in Amplification and Compression of a Short Pulse in Plasma	\$0	\$0	\$0			
110	2015-10-04-11	HE/Delaware State University	Overcoming Saturation Limit in Amplification and Compression of a Short Pulse in Plasma	\$0	\$0	\$0			
111	2015-10-04-12	HE/Delaware State University	Feasibility Study of Brownfield Habitat Restoration Potential by Combining Laser Induced Breakdown Spectroscopy with Mass Spectroscopy	\$0	\$0	\$74,500			
112	2015-10-04-13	HE/Delaware State University	Development of High Resolution Portable Flux Measurement System for Detection of Isotopic Carbon and Nitrogen for Soil Microbiology	\$0	\$0	\$0			
113	2015-10-04-14	HE/Delaware State University	Spectroscopic Ellipsometer for Studying Light- Matter Interactions in Nanoscale Plasmonic Chalcogenide Semicon	\$0	\$0	\$0			
114	2015-10-04-15	HE/Delaware State University	Mathematical Modeling and Analysis of Spatio- Temporal and Dissipative Optical Solutions in Nonlinear Materials and Photonic Devices Based on Metamaterials	\$0	\$0	\$0			
115	2015-10-04-16	HE/Delaware State University	Characterization of Micro-Organisms Isolated from a Closed Hypersaline Lake to Elucidate Fundamental Principles of Microbial Community Design	\$0	\$0	\$0			
116	2015-10-04-17	HE/Delaware State University	Program Life: Capital Park Community Smoking Prevention Health & Promotion Program	\$0	\$0	\$12,000			
117	2015-10-04-18	HE/Delaware State University	Cyber-Physical System Security in Implantable Insulin Injection System	\$0	\$0	\$0			

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118	2015-10-04-19	HE/Delaware State University	Collaborative Research: New Mathematical Methods of Description and Simulation of Small Scale Septated Anatomical Structures		\$0	\$0			\$0
119	2015-10-04-20	HE/Delaware State University	Acquisition of a Photomask Aligner for Design and Fabrication of Uncooled Thermal Detectors for Research & Education Training of Students at DSU		\$0	\$0			\$0